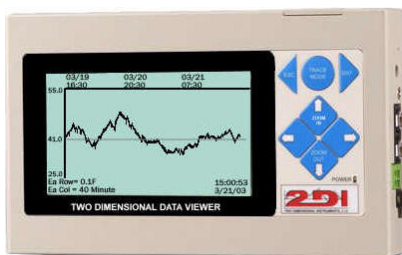




Specifications:

TDVD-01 ThermaViewer™ for Refrigerators and Freezers



- Stores and displays 10 month temperature history
- Two digital probes w 20 foot cables
- Trace mode highlights individual temperatures
- Scrolls through previous temperatures
- Serial port to download data

The Numbers:

Size: 8 3/8" x 5" x 1 3/8"

Display: Various user selectable graphic presentations.

Display Resolution: .1 Degrees on LCD display .0001 on PC (stored as 14 digit number)

Probe type: Digital sensor on 20' cable

LCD Size: 2.5" x 4.5" Graphic Display.

LCD Pixels: 240 Horizontal, 128 Vertical.

LCD Temperatures: 32°F to 122°F operating. -4°F to 154°F non-operating.

LED: Green – indicates AC power present

Sample Interval: User selectable: 15 sec - 60 min

Data Storage Technique: Battery Backed-Up SRAM

On Board RAM: 256k

Data Stored: 43,004 samples per channel.





Number of Channels for temperature only sensors: 2

Sensor Temperature Range: Digital sensor:-20°C to 75°C ($\pm 1.5^\circ\text{C}$ Accuracy (typ))¹

Calibration: Optional NIST traceable.

Characterization: On-board one point table accessed through the menu system.

Power: 12vac/dc 50/60hz (wall transformer) with emergency 9vdc battery backup.

Battery Backup: >48 hours with auto sleep mode set at 15 seconds and display asleep.

Output to PC: RS 232 (Com port) via custom cable (DB9 to audio style plug).

PC Software: Included with automatic and batch downloading. Site license.

Indicators: LCD & LED.

Controls: Seven buttons on membrane switch.

User Settings: Via onboard menu system.

Relay: Passive (dry contact) 2 terminal clamp <30 volts, (fused for .1 amp).

Alarm Conditions: min, max, rate of change of temperature.

Weight of display unit: 1 lb.

Shipping weight: 4.5 lbs with power adaptor, sensors, cables, battery, and users guide.

¹ **Accuracy:** $\pm 1.5^\circ\text{C}$ (typ) from -25°C to $+100^\circ\text{C}$. Specified -40°C to $+100^\circ\text{C}$, Operation to 150°C
Temperature Error TA = 25°C 1.0 3.0°C
 $-25^\circ\text{C} < \text{TA} < +100^\circ\text{C}$ 1.5 4.0°C
 $-40^\circ\text{C} < \text{TA} < -25^\circ\text{C}$ 2.0 5.0°C
Temperature Linearity 0.5°C
Long-Term Stability 1000 Hours at 125°C $.5^\circ\text{C}$

Users Guide